

CLAIMS

SN 6

1. A composition comprising (by weight):

- 55 to 99.5 parts of an EVOH copolymer,
- 0.5 to 45 parts of polypropylene (A) and of compatibilizer (B), the proportions of (A) and (B) being such that (A)/(B) is between 1 and 5,
- the ratio of the MFI of the EVOH to the MFI of the polypropylene being greater than 5, "MFI" denoting 10 the melt flow index.

2. The composition as claimed in claim 1, in which the MFI of (A) is between 0.5 and 3 (in g/10 mm at 230°C/2.16 kg).

3. The composition as claimed in claim 1 or 2, 15 in which the ratio of the MFI of the EVOH to the MFI of the polypropylene is between 5 and 25, the MFIs being measured at 230°C under a load of 2.16 kg.

4. The composition as claimed in claim 3, in which the ratio of the MFIs is between 8 and 15.

20 5. The composition as claimed in any one of the preceding claims, in which the (A)/(B) weight ratio is between 2 and 4.

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6. The composition as claimed in any one of claims 1 to 5, in which (B) is a polyethylene carrying 25 polyamide grafts which results from the reaction of (i) a copolymer (B1) of ethylene and an unsaturated monomer

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X, which is grafted or copolymerized, with (ii) a polyamide (B2).

7. The composition as claimed in claim 6, in which (B1) is chosen from ethylene-maleic anhydride copolymers and ethylene-alkyl (meth)acrylate-maleic anhydride copolymers, these copolymers comprising from 0.2 to 10% by weight of maleic anhydride and from 0 to 40% by weight of alkyl (meth)acrylate.

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10 8. The composition as claimed in any one of claims 1 to 5, in which (B) is a polypropylene carrying polyamide grafts which results from the reaction of (i) a propylene homopolymer or copolymer (B3) comprising an unsaturated monomer X, which is grafted or copolymerized, with (ii) a polyamide (B2).

15 9. The composition as claimed in claim 8, in which (B3) is an ethylene-propylene copolymer containing predominantly, in terms of moles, propylene grafted by maleic anhydride.

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10 10. The composition as claimed in any one of claims 6 to 9, in which (B2) is chosen from PA-6, PA-11, PA-12, the copolyamide containing nylon-6 units and nylon-12 units (PA-6/12) and the copolyamide based on caprolactam, hexamethylenediamine and adipic acid (PA-6/6,6).

25 11. The composition as claimed in any one of claims 6 to 9, in which (B2) is a monoaminated oligomer of PA-6.

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12. Films consisting of compositions as claimed in any one of the preceding claims.

13. Films as claimed in claim 12, comprising at least one polypropylene layer.

14. Multilayer structures comprising a film as claimed in claim 12 or 13 and packaging articles comprising these structures.

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